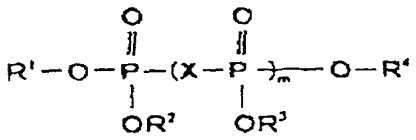
CLAIMS

What is claimed is:

1. A polycarbonate-based nonflammable resin composition, characterized by containing:

a. a polycarbonate-based resin (A-1);

b. a phosphoric ester (B) expressed by the following formula:



where R^1, R^2, R^3, and R^4 are each independently a C_1 to C_{30} hydrocarbon; X is a C_1 to C_{30} divalent organic group that may contain an oxygen atom and/or a nitrogen atom; and m is an integer from 0 to 5);

c. an alkoxy group-containing organopolysiloxane (C) expressed by the following average compositional formula:

$$R^1_aSi(OR^2)_bO_{(4-a-b)/2} \quad \ldots (1)$$

where R^1 is a substituted or unsubstituted univalent hydrocarbon group containing an aryl group as an essential component; R^2 is a substituted or unsubstituted univalent hydrocarbon group; R^1 and R^2 may be the same as or different from each other; $0.2 \leq a \leq 2.7$; $0.2 \leq b \leq 2.4$; and $a + b < 3$,

wherein

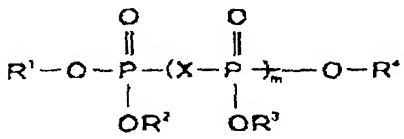
said phosphoric ester (B) being contained in an amount of 0.5 to 20 weight parts and said alkoxy group-containing organopolysiloxane (C) in an amount of 0.05 to 20 weight parts per 100 weight parts of the polycarbonate-based resin (A-1).

2. A polycarbonate-based nonflammable resin composition, characterized by containing:

a. a polycarbonate-based resin (A-1);

b. a thermoplastic resin (A-2) other than a polycarbonate-based resin;

c. a phosphoric ester expressed by the following formula:



where R^1, R^2, R^3, and R^4 are each independently a C_1 to C_{30} hydrocarbon; X is a C_1 to C_{30} divalent organic group that may contain an oxygen atom and/or a nitrogen atom; and m is an integer from 0 to 5; and

d. an alkoxy group-containing organopolysiloxane (C) expressed by the following average compositional formula:

$$R^1_aSi(OR^2)_bO_{(4-a-b)/2} \quad \ldots (1)$$

where R^1 is a substituted or unsubstituted univalent hydrocarbon group containing an aryl group as an essential component; R^2 is a substituted or unsubstituted univalent hydrocarbon group; R^1 and R^2 may be the same as or different from each other; $0.2 \leq a \leq 2.7$; $0.2 \leq b \leq 2.4$; and $a + b < 3$,

wherein

said phosphoric ester (B) being contained in an amount of 0.5 to 20 weight parts and said alkoxy group-containing organopolysiloxane (C) in an amount of 0.05 to 20 weight parts per combined 100 weight parts of the polycarbonate-based resin (A-1) and the thermoplastic resin other than a polycarbonate-based resin (A-2).

3. A polycarbonate-based nonflammable resin composition as defined in Claim 1 or 2, characterized in that the phosphoric ester is bisphenol A-tetraphenyl diphosphate (BPADP) or bisphenol A tetracresyl diphosphate.

4. A polycarbonate-based nonflammable resin composition as defined in Claim 1 or 2, wherein the weight average molecular weight of the alkoxy group-containing organopolysiloxane (C) is between 300 and 6000.

5. A polycarbonate-based nonflammable resin composition as defined in any of Claims 1 to 4, characterized in that the alkoxy group-containing organopolysiloxane (C) includes a branched structure.

6. A polycarbonate-based nonflammable resin composition as defined in any of Claims 1 to 5, characterized in that the alkoxy group-containing organopolysiloxane (C) contains substantially no silanol groups (SiOH).

7. A polycarbonate-based nonflammable resin composition as defined in any of Claims 1 to 6, characterized in that R^1 of the alkoxy group-containing organopolysiloxane (C) is a methyl group, ethyl group, or phenyl group, and the phenyl group content is at least 20%.

8. A polycarbonate-based nonflammable resin composition as defined in any of Claims 1 to 7, characterized in that R^2 of the alkoxy group-containing organopolysiloxane (C) is a methyl group or ethyl group.

9. A polycarbonate-based nonflammable resin composition as defined in Claim 2, characterized in that the thermoplastic resin (A-2) is one or more types of resin selected from the group consisting of:

polymers including as a structural component (a) an aromatic vinyl monomer component;

copolymers including as structural components (a) an aromatic vinyl monomer component and (b) a vinyl cyanide monomer component;

copolymers including as structural components (a) an aromatic vinyl monomer component, (b) a vinyl cyanide monomer component, and (c) a rubber-like polymer;

aromatic polyesters;

polyphenylene ethers;

polyether imides; and

polyphenylene sulfides.

10. A polycarbonate-based nonflammable resin composition as defined in Claim 9, characterized in that the thermoplastic resin (A-2) is one or more types of resin selected from the group consisting of ABS resins, AES resins, ACS resins, AAS resins, and polystyrene resins.

11. A polycarbonate-based nonflammable resin composition as defined in any of Claims 1 to 10, characterized by further containing (D) an anti-drip agent in an amount of 0.01 to 10 weight parts per 100 weight parts of the polycarbonate-based resin (A-1) or per combined 100 weight parts of the polycarbonate-based resin (A-1) and the thermoplastic resin (A-2).

12. The polycarbonate-based nonflammable resin composition as defined in Claim 11, characterized in that the anti-drip agent is polytetrafluoroethylene (PTFE).

13. A polycarbonate-based nonflammable resin composition as defined in any of Claims 1 to 12, characterized by further containing (E) an alkali (alkaline earth) metal salt of a perfluoroalkanesulfonic acid in an amount of 0.01 to 3 weight parts per 100 weight parts of the polycarbonate-based resin (A-1) or per combined 100 weight parts of the polycarbonate-based resin (A-1) and the thermoplastic resin (A-2).

14. A polycarbonate-based nonflammable resin composition as defined in any of Claims 1 to 13, characterized by further containing (F) an epoxy-based stabilizer in an amount of 0.01 to 5 weight parts per 100 weight parts of the polycarbonate-based resin (A-1) or per combined 100 weight parts of the polycarbonate-based resin (A-1) and the thermoplastic resin (A-2).

15. A polycarbonate-based nonflammable resin composition as defined in Claim 14, characterized in that the epoxy-based stabilizer (F) is 3,4-epoxycyclohexylmethyl-3',4'-epoxycyclohexanecarboxylate or bis-(3,4-epoxycyclohexyl) adipate.

16. An electrical or electronic device part formed from a nonflammable resin composition as defined in any of Claims 1 to 15.

17. A molded article composed of a nonflammable resin composition as defined in any of Claims 1 to 15.